



The Planetary Data System and “PDS Challenge” Activity

PDS Management

Ed Grayzeck

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Past NTL interactions

- “PDS Challenge” status as of 2014
 - NASA Tournament Lab(NASA/Harvard/TopCoder) teamed with PSD to implement as NTL action
 - Created series of contests supported by NTL via NASA Advanced Exploration Systems (Jason/Carol)
 - Used a restricted sample of SBN (comet Halley) data on excess server – start 2012 and presented at Oct 2012 DPS
 - Poster/presentation at Oct 2013 DPS including step to form Cassini-Rings Challenge
 - Workshop at Nov 2014 DPS – sparse attendance
 - Poster/presentation at same DPS – well received

PDS Challenge - Rings

Goal – “Rings Challenge” complete by Oct 31

NTL Teams to search Cassini ISS data for disruptions – citizen science – crowd sourcing.

Set up contests/create test scenarios (Oct 13)

3/14 PM (Jen Odess), Tech support (Ambi Villar)

Prelim contest winner algorithm not teachable

Set 2 phase Marathon Match with 761 “controls”

Prelims indicate 67% success and teachable

Expect round 2 after evaluation by Rings

DPS Lessons Learned

Registration free through DPS – 19 sign ups
Notification through 2 PEN notices - too late
5 attendees [Lynn Buquo (CoECI)] - animated
Time slot ok – other workshop competition
Location in obscure breakout room - signs
Added LMMP to presentation and got good ideas
APPIRIO provided pop-up similar to Poster
Jen at PDS booth and in 212 Education Posters
Good questions at poster session and viewers

PDS Challenge Next steps

- A. NTL completed survey to those nodes interested with requirement questions (on volume, type of data, database, file system on remote URL, adherence to PDS3, POC);
- B. NTL reviewed the feedback and works with TC/Appirio to refine challenge; recommends one more Node with cost estimate in CY14 - PPI
- C. Work with TC/Appirio to develop an NTL cost estimate/node after 2014 DPS workshop/poster to gauge streamlined process and ideas.

Background

PDS Challenge Initial Steps

Goal – Node input; further access; PDS4 ?

1. Identify ideas and interest (Dec 2013);
2. About 10 ideas (three different nodes);
3. Assembled list sent to Kristen/Carol NTL;
4. Review planning after Cassini ISS project ;
5. Previous HQ support to participating Nodes
 - buy low end server or alternative
 - acquire needed storage space (or cloud)